

Figure 4-29 shows the liquid level for the three annulus ENRAFs from January through August 2012. All three liquid level readings of the annulus ENRAFs were below the 0.25-in. specification except for two readings. Two readings were reported to be above 0.25 in. which occurred on July 24, 2012 and August 29, 2012 for ENRAF 152. It is assumed these were erroneous data points as levels returned to normal within hours.

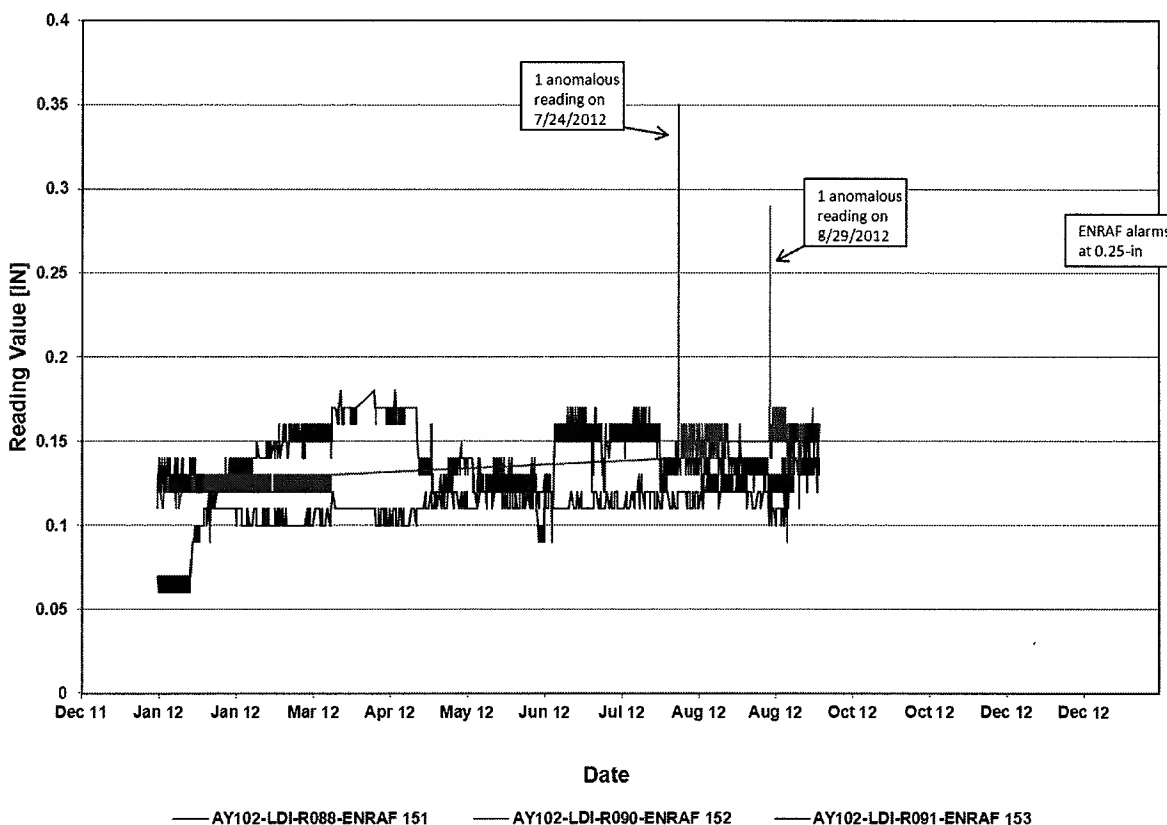


Figure 4-29. Tank AY-102 Annulus ENRAFs Liquid Levels 2012

4.2.4.3 Summary

The liquid level readings for the Tank AY-102 annulus ENRAFs were reviewed from 2004, when the ENRAFs were first installed, to present. There were no unexplained increases in liquid level data from 2004 until October 2011. In October 2011, ENRAF 152 alarmed as liquid levels gradually increased to a maximum level of 0.51 in. and then slowly declined to less than 0.25 in. by November 2011. Water intrusion from rainfall was the suspected cause; however, this explanation seems problematic because of the plummet radiation readings where none would be predicted.

4.2.4.4 Broken/Sticking ENRAF

On March 10, 2012, the Riser 90 ENRAF 152 was declared out of service. During planned repairs on May 24, 2012, the ENRAF displacer wire broke while attempting to retrieve the displacer and fell into the annulus of Tank AY-102 (see Section 4.4). A bullet camera was deployed into the annulus on June 4, 2012 which identified that the displacer was in a location